"Human Voice Will Span Seas Soon"

EMILE BERLINER FORESEES WIRELESS PHONE

Science Is Halted by War, He Says

Washington Inventor, to Whose Genius Civilization Is Indebted for the Perfection of the Telephone Today, Tells of First Principles of Transmitting Sound Without Wires, and Says that System Will Be Practical Before Trans-Atlantic Telephone Is Laid - Foundation for Coast to Coast Transmission Was Laid Years Ago, He Explains, When Prof. Pupin Invented the "Choking Coil."

The wireless telephone will link the old and new worlds before under-sea cable telephones shall be accomplish-

This is the prediction of Emile Berinis is the prediction of Emile Ber-liner, the local inventor, whose genius gave to civilization the telephone transmitter which made present-day telephony a practical accomplish-

"Wireless telephony is bound to span the Atlantic prior to the tele-phone cable," said the inventor. "The rans-Atlantic telephone cable is not an impossibility. It is inevitable. Its coming is merely a matter of time. But wireless telephony is making even vaster strides than cable experimenta-

War Warring on Science.

The present European war is play-ing havoc with science; it is retarding the discovery of many important inventions; it is delaying the onward march of technical investigation. The influence of the war is felt in experi-mentation with wireless telephony. The work practically has been brought to a halt. But as soon as the war is over some remarkable developments are to make their appearance. Within a year after the close of the war ver-stable miracles are to be wrought in the realm of wireless telephony. Possibly within that year trans-Atlantic wireless telephony probably will be-

ome a reality.

I can explain wireless telephony
best to the lay mind by comparing the lectro-magnetic waves upon which s based with a great electrical breeze. The first problem is to generate a suf-

iciently strong electric breeze to the the Atlantic. The second is to impinge upon that reeze the human voice. Experiments It will not be long before cities last night. He will make an fin-tive of operation will be ex- spection of merchants' associations in that radius of operation will be exspection
tended to more than 3,000 miles. Of the larg course, there are difficulties, such as static interference and the difficulty of direction the breeze in a desired direction—the breeze ordinarily radiating equally in all directions—but these are not unsurmountable obstruc-

The inventor leaned back in the leather chair drawn up to the side leather chair drawn up to the side of the big oak table in his library and gazed across the room with an anticipatory expression, as though gazing at a picture of things as they will be in the years that are to come.

Explains Telephone Principle.

The linking of the Atlantic and the Pacific by telephone was a vast achievement," he said after a pause of a minute or so. "It was a remarkable accomplishment, but the principles which made the achievement possible are not new; they were discovered a dozen years ago. Trans-connect chairman of the Boy Scout commitovered a dozen years ago. Italian the control of the Chamber of Commerce in the use of so-called choking coils. about a dozen years ago by Prof. Michael I. Pupin, of Columbia

"A brief explanation will make clear the function of these coils. Whenever electric current passes along a ronductor, a counter electro-motive force is set up in the field surroundthe conductor, its direction being exactly opposite to that in which the current is flowing. So, when the current flows along a telephone wire, this counter electro-motive force is cre-ated, and it tends to retard the progless of the current upon which the human voice is impigned. This coun-ter force increases with the distance finally becomes so great as ut-

terly to stop the transmission of the The difficulty is overcome by the insertion along the line of Pupin coils varying intervals of about twentyfive miles on the average. Their effect s to take up this counter electro-moity force, thus eliminating the inter-tive force, thus eliminating the inter-verence. I say this coil was invented about twelve years ago. The delay in establishing trans-continental tele-phonic communication has been due to wo causes, the expense of installation and the difficiulty of so adjusting the the counter electro-motive force.

Now, that the feat has been accomplished, the next problem is to span the seas. Three problems present themselves; the expense of installation, the necessity of splicing the inhie for the introduction of choking coils, and the adjustment of the coils so as to eliminate the destructive work of the counter electro-motive force.

With the present knowledge pos-essed by scientists the use of the bloking colls is necessary and their necessitates the splicing of the able at intervals of approximately twenty-five miles, maybe greater or less. But every splice in a cable is a canger point. It weakens the cable and increases mightily the possibilty of rouble. The expense in constructing and maintaining such a cable probably

The adjustment of the coils so as to effectively choke the counter current is merely a matter of mathenatics and experimentation. There is o question but that it can be worked successfully-it is merely a mater of time. These difficulties are great, but not wholly unsurmountable, and he trans-Atlantic cable is an inevit-

would be enormous.

ble thing." Although Alexander Graham Bell nvented the principle of the speak-ng telephone and was the first to ut the device in use, several of the est important perfections of the in-

Mr. Berliner. was he who invented the loose ntact transmitter and first used an duction coll in connection with the ansmitter. The loose contract transtter or microphone was invented in \$77 and in the following year he covered the efficacy of using in-ction coils. It is these perfections at have made the telephone what it

There have been later developments the telephone, of course, but these based on the discoveries of Prof. ell and Mr. Berliner. One of the imtant perfections was the invention 1883 and 1884 by an Englishman amed Hunnings of multiple loose

ntacts in transmitters



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he Treasury Department James C. Address STENOGRAPHER, BOX 19, Herald Office.
heseldine, of the office of the Chief
lerk, was assigned to Mr. Machen's posed to Woman Suffrage. Mrs. Weeks rived in this city yesterday on a short duties in the Bureau of Internal Revenue. resigned from the position because she will not be in Washington this winter.

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over the girls weeks by serious illness. His condition Tinker to Release Ten Players.

Chicago, Jan. 29 - Members of the Chicago Fed-eral League club will leave for spring training at for Pittsburgh, last night.

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Mrs. Appleton P. Clark, jr., Davis, has taken the place of Mrs. John
who have been spending a few days in W. Weeks, wife of Senator Weeks, as March d. Eight or terescon's players will either be traded or Havana and other points in Cuba, are president of the District Association Op- taken from the ranks of organized baseball

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Dakota Gesires to proceed the process of the date of t

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PUBLIC STENOGRAPHERS.

RUG WEAVING.

WINTER TIME-RUG TIME. DON'T buy new rugs; we weave from your old carpets; carpets cleaned. WASH, RUG WEAVING CO., 331 5th nw. Ph. M. 429. WINTER RESORTS-Atlantic City. New Clarion Kentucky Ave., second house from ocean; elevator to atreet; open all year. Garage. S. K. BONIFACE.

MONEY WANTED AND TO LOAN. MONEY TO LOAN ON REAL ESTATE in small and large sums All transac-tions conducted with economical consid-eration for borrowers. WM. H. SAUN-DERS & CO., Southern Bidg., 807 15th st.

EMILE BERLINER.

Purely Personal. Charles J. Columbus, secretary of the show that this can be accomplished at Retail Merchants' Association, left for intances of possibly a hundred miles Chicago, Indianapolis and other Western

> ter, of Rochester, N. Y., are in Wash-ington for a few days. They arrived yesterday and are staying at the Willard.

her son, E. W. Parlett, Hyattesville, Md.

has returned to her home in Norfolk Va.

the large cities.

J. H. Stafford, of Saratoga Springs, ar-

E. H. Daniel of Golden & Co., is con fined to his home with tonsilities. George P. Killian, director of the Cham-

for Pittsburgh, last night.

sturning to Washington through Flor

morning. They are staying at the Ebbitt.

tricts of the United States. Mr. Dickin-son has been in search of blue-blooded show animals for millionaire horse lovers. John D. Machen yesterday was trans-

ot been lit of diphtheria, as inadvertenty stated in The Herald recently. Mrs. Wadsworth, daughter of Senator-last night for a vacation in the South of

Sherwood formerly was a toll and chief operator in the main office of the tele-

George F. Dickinson, formerly a Texas aarrived in Washington yesterday, com-

elected a member of the executive com-nittee of the District Association Opposed mittee of the District Association Opposed to Woman Suffrage.

Miss Gertrude M. Sherwood has been confined to his home for the past three defents. INDEFENDENCE IS YOURS, IF YOURS, IS MISS COURT. Toledo, Ohio, AGENTS—JUST INVENTED, EAGLE KNIFE the to Woman Suffrage.

ida and expect to reach home the first first week in February. Mr. and Mrs. J. B. Fall, of Springfield, Mass., arrived in Washington yesterday

E. W. Parlett, of Hyattesville, Md., left phone company here.

C. W. Hillman, of Louisville, Ky., in recently selected by the Commissioners was reported to be improving yesterday, on a short trip to this city. Mr. Hill-to operate the new telephone switchboard and he hopes to be out again in the near installed in the Municipal Building. Miss

GENERALS IN GREAT BASEBALL WAR FIGHT FOR ADVANTAGE ON CHICAGO BATTLEFIELD.



HARD DESSING.

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